PATENT COOPERATION TREAT

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference PPD 70257WO FOR FURTHER A			FOR FURTHER AC	See Form PCT/IPEA/416				
Interna	ational application No	o.	International filing date (d	lay/month/year)	Priority date (day/month/year)			
PCT/GB2004/003424 06.08.2004			06.08.2004		06.08.2003			
Interna AO1	International Patent Classification (IPC) or national classification and IPC A01N25/02, A01N25/04, A01N25/30, A01N35/10, A01N47/30, A01N43/40, A01N25/00							
Applic SYN								
1.	This report is the Authority under A	international pre rticle 35 and trar	liminary examination repairments	oort, established by this according to Article 36	s International Preliminary Examining 3.			
· 2.	This REPORT co	nsists of a total o	of 8 sheets, including th	is cover sheet.				
3.	This report is also	accompanied b	y ANNEXES, comprisin	g:	t, e e e e e			
					is follows:			
	 a. sent to the applicant and to the International Bureau) a total of sheets, as follows: sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). 							
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.							
	b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).							
4.	4. This report contains indications relating to the following items:							
	⊠ Box No. I	Basis of the opi	nion					
	☐ Box No. II	Priority						
	☐ Box No. III	Non-establishm	nent of opinion with rega	rd to novelty, inventive	step and industrial applicability			
	☐ Box No. IV	Lack of unity of	invention					
	⊠ Box No. V	Reasoned state		 with regard to novelty supporting such state 	y, inventive step or industrial ment			
	☐ Box No. VI	Certain docum	ents cited					
ļ	☐ Box No. VII	Certain defects	in the international app	lication				
	☐ Box No. VIII	Certain observa	ations on the internation	al application				
Date of submission of the demand		Date of completion of this report						
01.06.2005				04.10.2005				
Name and mailing address of the international			nal	Authorized Officer	albes Polonies.			
preliminary examining authority: ————— Furopean Patent Office - P.B. 5818 Patentlaan 2			3. 5818 Patentlaan 2		i see man in the second of the			
1	<i>O)))</i> Tel +31 79	IV Rijswijk - Pays 0 340 - 2040 Tx: 3	ട്രമട 1 651 epo ni	Lamers, W				
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/GB2004/003424

_	Вох	No. I Basis of the	ne report	
1.	With filed	h regard to the lang d, unless otherwise	uage, this report is based or indicated under this item.	n the international application in the language in which it was
		This report is base which is the langua	d on translations from the or age of a translation furnished	iginal language into the following language , for the purposes of:
		publication of the	arch (under Rules 12.3 and ne international application (u eliminary examination (unde	ınder Rule 12.4)
2.	hav	re been furnished to	nents* of the international ap the receiving Office in respo d" and are not annexed to th	oplication, this report is based on (replacement sheets which onse to an invitation under Article 14 are referred to in this is report):
				• * · · ·
	Des	cription, Pages	•	
••	1-17		as originally filed	
	Claims, Numbers			
	1-15	5	as originally filed	
	_ 	a sequence listing	and/or any related table(s) -	see Supplemental Box Relating to Sequence Listing
3.		The amendments	have resulted in the cancella	ition of:
		☐ the description,		
		☐ the claims, Nos☐ the drawings, s		
	•	☐ the sequence li	sting (specify):	•
٠		any table(s) rel	ated to sequence listing (spe	ecify):
4.	□ had Sup	This report has be I not been made, si oplemental Box (Ru	nce they have been consider	f) the amendments annexed to this report and listed below ed to go beyond the disclosure as filed, as indicated in the
	·	☐ the description,☐ the claims, Nos☐ the drawings, s☐ the sequence li	heets/figs	
			ated to sequence listing (spe	ecify):
	*	If item 4 appl	ies, some or all of	these sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/GB2004/003424

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

Claims

Claims

5-7, 12

No:

4_

1-4, 8-11, 13-15

Inventive step (IS)

Yes: Claims

No:

1-15

Industrial applicability (IA)

Yes: Claims

1-15

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

- D1: EP-A-0 074 329 (CIBA GEIGY AG) 16 March 1983 (1983-03-16)
- D2: GB-A-1 483 186 (ICI LTD) 17 August 1977 (1977-08-17)
- D3: WO 01/17351 A (GLOCK JUTTA; CORNES DEREK (CH); FRIEDMANN ADRIAN ALBERTO (CH); SYNGEN) 15 March 2001 (2001-03-15)
- D4: GB-A-1 453 443 (ICI LTD) 20 October 1976 (1976-10-20)
- D5: EP-A-1 023 832 (AMERICAN CYANAMID CO) 2 August 2000 (2000-08-02)
- D6: WO 98/32821 A (REYEN MICHAEL JAKOB; ARYANA NIKIPAD (FR); PROCTER & GAMBLE (US)) 30 July 1998 (1998-07-30)
- D7: WO 94/05751 A (HENKEL CORP) 17 March 1994 (1994-03-17)
- D8: WO 98/37760 A (CRISANTI MICHAEL GEORGE; RECKITT & COLMAN INC (US); SMIALOWICZ DENNIS) 3 September 1998 (1998-09-03)

<u>V.a.</u> Certain observations on the international application

According to Rule 6.4 PCT a claim which has a reference to another claim (or claims) includes all the features of this claim (or claims). Claims 3-8, 10, 11 and 14 depending directly or indirectly on claim 1 therefore should all include the feature "continuous single phase". All these claims however relate to subject matter which is characterised by comprising more than one phase.

Any agrochemical concentrate comprising more than one phase cannot be a concentrate which is characterised by having a single phase.

This contradiction leads to doubt concerning the matter for which protection is sought, thereby rendering the claims unclear (Article 6 PCT).

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V.b. Novelty

The subject matter of claims 1-4, 8-11, and 13-15 is not new (Art. 33(2) PCT):

Document D1 discloses aqueous solution concentrates comprising a pesticide and hydrotropes and containing in addition adjuvants like surface active agents or additional solvents (see D1: page 3, paragr. 2, and paragr. 4 - page 4, paragr. 3; page 5, paragr. 2). Adjuvants can be commercial surface active agents, carbohydrate solvents like plant or mineral oils, silicones etc. (see page 5, paragraph 3). The solution concentrates may comprise as further phase a solid insoluble pesticide. Such concentrates can be prepared by adding the solid pesticide to the solution concentrates (see page 7, paragr. 2 - page 8, paragr. 1). In examples 1-5 various aqueous solution concentrates, containing adjuvants (surface active agents or water-insoluble solvents), hydrotropes and solved pesticides are specified. Examples 6-8 disclose solution concentrates which in addition comprise suspended further pesticides.

With respect to D1 the subject matter of claims 1-4, 9, 10, 13, 14 and 15 is not new (Art. 33(2) PCT).

Document D2 discloses aqueous wetting agent concentrates comprising water, surface active agents (having excellent wetting properties for surfaces like plant foliage) and water soluble compounds like e.g. caprolactone, gamma-butyrolactone etc.. The surface active agents are i.a. low ethoxylated straight chain alcohols. The concentrates are clear homogenous solutions in which the surface active agents are solubilized by the water soluble compounds. After addition of agrochemicals (as solution or dispersion) the concentrates can be diluted and applied (see D2: page 1, lines 9-73; page 2, lines 1-18 and lines 42-55; examples).

With respect to D2 the subject matter of claims 1-3, 9, 13 and 15 is not new (Art. 33(2) PCT).

Document D4 discloses aqueous wetting agent concentrates comprising water, surface active agents (having excellent wetting properties for surfaces like plant foliage) and acetic acid. The surface active agents are i.a. low ethoxylated straight chain alcohols. The concentrates are clear homogenous solutions in which the surface active agents are solubilized by acetic acid. After addition of agrochemicals (as solution or dispersion) the concentrates can be diluted and applied (see D4: page 1, lines 10-43 and lines 67-88; page 2, lines 6-20 and lines 30-39; examples).

With respect to D2 the subject matter of claims 1-3, 9, 13 and 15 is not new (Art.

33(2) PCT).

Document D5 discloses aqueous suspension concentrates comprising crop protection agents and large amounts of adjuvants, having surface active effects and increasing the biological activity of the active agents. Specified adjuvants (used i.a. in the examples) are alkylpolyglycosides commercially available under the names Atplus 430, Atplus 435, Atplus 450, and Atplus 469 which are alkylpolyglycosides already containing hydrotrope agents (see D5: page 2, lines 23-50; page 3, lines 1-3; page 5, lines 6-9 and lines 23-28; see examples 1, 2, 6, 7, 17, 20, and 23).

With respect to D5 the subject matter of claims 1-4, 8, 10, 11, 14, and 15 is not new (Art. 33(2) PCT).

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Document D6 discloses transparent aqueous compositions comprising surface active agents, terpene derivatives (like geraniol) and hydrotropes (like cumene or xylene sulfonates) (see D6: page 2, paragr. 1; page 8, paragr. 3 - page 9, paragr. 1; page 14, paragr. 5; examples). Attention is drawn to Chapter IV, 7.6 of the PCT International Preliminary Examination Guidelines as in force from 9 October 1998, and Chapter 12.05 of the PCT International Search and Preliminary Examination Guidelines as in force from March 25, 2004, saying that for determining novelty of the subject-matter of claims directed to a physical entity, non-distinctive characteristics of a particular intended use, should be disregarded.

With respect to D6 the subject matter of claims 1 and 2 is not new (Art. 33(2) PCT).

Document D7 discloses clear aqueous concentrates comprising surface active agents, terpene oils and hydrotropes like Westvaco H240 (see D7: page 3, lines 2-27; page 4, lines 1-8; page 6, lines 2-14; examples). Attention is drawn to Chapter IV, 7.6 of the PCT International Preliminary Examination Guidelines as in force from 9 October 1998, and Chapter 12.05 of the PCT International Search and Preliminary Examination Guidelines as in force from March 25, 2004, saying that for determining novelty of the subject-matter of claims directed to a physical entity, non-distinctive characteristics of a particular intended use, should be disregarded.

With respect to D7 the subject matter of claims 1, 2, and 9 is not new (Art. 33(2) PCT).

Document D8 discloses aqueous concentrates comprising i.a. hydrophobic oils, various oil-based surface active agents, biocides and hydrotropes (see D8: page 1, line 26 - page 2, line 8; page 2, line 26 - page 3, line 2; page 9, lines 1-17). Attention is

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drawn to Chapter IV, 7.6 of the PCT International Preliminary Examination Guidelines as in force from 9 October 1998, and Chapter 12.05 of the PCT International Search and Preliminary Examination Guidelines as in force from March 25, 2004, saying that for determining novelty of the subject-matter of claims directed to a physical entity, non-distinctive characteristics of a particular intended use, should be disregarded.

With respect to D8 the subject matter of claims 1, 2, and 9 is not new (Art. 33(2) PCT).

In as far as understandable (see point V.a. above) the subject matter of claims 5-7 and 12 appears to relate to certain oil in water or water in oil emulsion and microcapsule in water formulation which are prepared by using the concentrates of claims 1 or 2. As such formulations are not disclosed in the prior art; the subject matter of claims 5-7 and 12 (in as far as understandable) appears to be new (Art. 33(2) PCT).

V.c. Inventive Step

As the subject matter of claims 1-4, 8-11, and 13-15 is not new, it cannot be considered as involving an inventive step (Art. 33(3) PCT). Furthermore the subject matter of all claims appears to lack an inventive step for the following reasons: The use of hydrotropes to prepare single phase aqueous agrochemical concentrates or to solubilise oil-based adjuvants into the aqueous medium of such concentrates is known from documents D1, D2, and D3. In addition, as mentioned in document D5, adjuvants for agrochemical formulations, which contain hydrotropes in admixture with oil-based adjuvants are even commercially available. Concentrated formulation types like oil-in-water or water in oil emulsions, aqueous suspensions, microcapsule suspensions, microemulsions, solutions or suspoemulsions, which appear to be the subject matter of claims 3 - 14 are no more than general knowledge of the skilled person. The utilizations of the concentrate of claims 1 and 2 in such types of formulation therefore are merely several straightforward possibilities from which the skilled person would select, in accordance with circumstances, without the exercise of inventive skill (Art. 33(3).

V.d. Industrial Applicability

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International application No.

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The subject matter of claims 1-15 appears to be industrially applicable (Art. 33(4) PCT).

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